

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20040175177".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/20 08:35
S2	506	Lee-Jea-Hyuck.in. Hwang-Seong-Taek.in. Oh-Yun-Je.in. Jung-Dae-Kwang.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:37
S3	24736	central adj office\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 10:58
S4	84	S2 and S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S5	8950	soa or (semiconductor adj2 amplifier\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 10:55
S6	118056	grating\$1 or fbg\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 10:53
S7	134614	grating\$1 or fbg\$1 or bragg	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 10:53
S8	888	S5 same S7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 10:17
S9	41	S4 and S5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 10:54
S10	15	(S5 and S3 and S7).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S11	442507	resona\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 11:00
S12	127	S8 same S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 12:45
S13	5	S3 and S12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 11:00
S14	13957	398/1-214.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 12:47

## EAST Search History

S15	5238	passive adj2 network\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 12:51
S16	688	S14 and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 12:51
S17	166	S14 and S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 14:11
S18	17	S16 and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 12:51
S19	149	398/72.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 14:11
S20	202551	passive	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 14:11
S21	91	S19 and S20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:03
S22	6464	power adj split\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:03
S23	106827	star or stars	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:04
S24	112857	S22 or S23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:05
S25	575	398/66-73.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:06
S26	107	398/63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:06
S27	263	398/58.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:06
S28	889	S25 S26 S27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:06
S29	347	S24 and S28	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 16:20

## EAST Search History

S30	11	("4581770"   "4723309"   "4801190"   "4850047"   "5159479"   "5189414"   "5202780"   "5432875"   "5896213"   "5926298"   "5936753").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/12 15:20
S31	1961020	fbg or bragg or grating or filter\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 15:25
S32	8	("4134008"   "4712859"   "5377026"   "5408350"   "5608565"   "6108112"   "6411410"   "6650840").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/12 15:42
S33	13	("20030056227"   "20030076560"   "20040218924"   "5262883"   "5541757"   "5742414"   "5850303"   "5880865"   "6271947"   "6282005"   "6577422"   "6597482"   "6697574").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/12 15:50
S34	2854	398/79-97.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 16:20
S35	467	S24 and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 16:20
S36	392	S35 not S29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 16:27
S37	359	S31 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 16:28
S38	167687	bi-direction\$4 or bidirection\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 16:36
S39	111	S37 and S38	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/12 16:36
S40	4	("5140655"   "5214728"   "5280549"   "5388172").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/12 16:48
S41	203549	passive	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 08:35
S42	6492	power adj split\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 08:35
S43	107252	star or stars	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 08:35
S44	309437	S41 or S42 or S43	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 08:35
S45	8997	soa or (semiconductor adj2 amplifier\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:38

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S46	135113	grating\$1 or fbg\$1 or bragg	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 08:36
S47	902	S45 same S46	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 08:37
S48	386	S44 and S47	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 08:37
S49	2	("5523879").URPN.	USPAT	OR	OFF	2006/09/27 10:35
S50	13	("4547879"   "4768848"   "4886334"   "4959829"   "5073982"   "5107492"   "5124983"   "5134671"   "5144466"   "5172373"   "5233453"   "5282257"   "5414554").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/27 10:35
S51	25	("5570226").URPN.	USPAT	OR	OFF	2006/09/27 10:37
S52	24848	central adj office\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 10:58
S53	43848	head adj end\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 11:00
S54	67715	S52 or S53	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 11:00
S55	28	S48 and S54	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 11:11
S56	1	2004-675140.NRAN.	DERWENT	OR	OFF	2006/09/27 11:06
S57	4	JP-88878-A.did. JP-2001094205-A.did. JP-2001053655-A.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/02 09:21
S58	1	JP-08008878-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 12:17
S59	2	("5550666").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:00
S60	4490	remote adj node\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:00
S61	163313	subscriber\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:07
S62	166915	S60 or S61	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:21

## EAST Search History

S63	42	S48 and S62	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:21
S64	21	S63 not S55	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:21
S65	513	Lee-Jea-Hyuck.in. Hwang-Seong-Taek.in. Oh-Yun-Je.in. Jung-Dae-Kwang.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:37
S66	93	S45 and S65	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:37
S67	1579	S45.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:38
S68	60	S65 and S67	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/09/27 13:38
S69	3	((("5712716") or ("6052499") or ("6067187"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/02/16 07:59
S70	1	("6697414").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/02 09:30
S71	42	(US-20050036787-\$ or US-20040175177-\$ or US-20030180049-\$ or US-20020027682-\$ or US-20050074240-\$ or US-20040131358-\$ or US-20040022540-\$ or US-20020135837-\$ or US-20020063932-\$ or US-20010028486-\$ or US-20030076560-\$ or US-20020196491-\$).did. or (US-5930015-\$ or US-5523879-\$ or US-6031645-\$ or US-5896213-\$ or US-5889600-\$ or US-5870216-\$ or US-6650840-\$ or US-5550666-\$ or US-6687275-\$ or US-6625182-\$ or US-6913401-\$ or US-6394665-\$ or US-7016608-\$ or US-6970653-\$ or US-5936753-\$ or US-5911019-\$ or US-6882801-\$ or US-5864413-\$ or US-6108112-\$ or US-5574584-\$ or US-5221983-\$ or US-6101014-\$ or US-4712859-\$ or US-6445472-\$ or US-5572612-\$).did. or (JP-03056944-\$).did. or (JP-2002043689-\$ or JP-2003347668-\$ or EP-1124296-\$ or JP-11163470-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/10/02 09:29
S72	1	("5523879").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/02 09:42
S73	10404	(fibre or fiber) adj2 grating\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/02 09:45
S74	7	S71 and S73	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/02 09:45
S75	8	US-5523879-\$.DID. OR US-6697414-\$.DID. OR US-5712716-\$. DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 07:59

## EAST Search History

S76	954	398/58,63,66-73.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S77	574	Lee-Jea-Hyuck.in. Hwang-Seong-Taek.in. Oh-Yun-Je.in. Jung-Dae-Kwang.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S78	25804	central adj office\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S79	98	S77 and S78	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S80	9453	soa or (semiconductor adj2 amplifier\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S81	140152	grating\$1 or fbg\$1 or bragg	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:19
S82	16	(S80 and S78 and S81).dm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:59
S83	8	US-5523879-\$.DID. OR US-6697414-\$.DID. OR US-5712716-\$. DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 11:19
S84	416	(S80 and S81).dm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:59
S85	27	S84 and S78	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 08:59
S86	9	("20020008901"   "5295016"   "6195200"   "6304368"   "6310716"   "6353499"   "6628454"   "6788712"   "6900933").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/02/16 09:37
S87	967	S80 same S81	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 10:17
S88	31	S78 and S87	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 10:17
S89	272	398/63,72.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/16 11:19
S90	1	jp-2003283465-\$.pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/20 09:12

## EAST Search History

S91	874	inoue-hideaki.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/20 09:13
S92	3	inoue-hideaki.in. and MURAKAMI-KATSUMI.in. and OTAKA-AKIHIRO.in. and SHIOZAWA-MORIYASU.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/06/20 09:13